



Water-Data Report 2008

01461300 WICKECHEOKE CREEK AT STOCKTON, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°24'41", long 74°59'12" referenced to North American Datum of 1983, Stockton Borough, Hunterdon County, NJ, Hydrologic Unit 02040105, 200 ft upstream from bridge on State Route 29, 0.2 mi upstream from mouth, 0.6 mi northwest of Stockton, and 2.5 mi east of Raven Rock.

DRAINAGE AREA.--26.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1944, 1958-64, 1977-90. Continuous-record gaging station, March 2006 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80 ft above NAVD of 1988.

REMARKS.--Records fair, except for discharges below 1 ft³/s and estimated daily discharges, which are poor. Several measurements of water temperature were made during the water year. Satellite gage-height telemetry at station.

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01461300 WICKECHEOKE CREEK AT STOCKTON, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e0.33	4.2	9.9	75	324	33	20	14	13	1.7	0.88	0.55
2	e0.25	3.6	8.2	52	182	38	25	12	8.9	1.6	1.6	0.53
3	e0.25	3.0	55	26	49	37	18	11	6.9	1.5	1.2	0.52
4	e0.25	2.7	34	22	35	54	45	10	41	1.5	0.91	0.52
5	e0.25	2.4	16	18	40	740	40	9.8	36	1.6	0.89	0.51
6	e0.25	3.0	11	19	62	87	24	8.5	15	1.6	0.95	30
7	e0.25	3.0	9.1	21	80	80	19	7.5	9.6	1.5	0.78	55
8	e0.20	2.8	8.4	23	37	1,680	17	7.2	7.3	1.4	0.75	4.9
9	e1.2	2.7	9.4	21	26	189	15	46	5.8	1.4	0.75	3.9
10	3.3	2.5	77	18	31	69	14	78	4.9	1.4	0.78	3.7
11	3.2	2.4	32	83	19	53	13	24	4.6	1.3	0.98	2.4
12	2.8	2.2	26	67	13	43	126	36	3.8	1.3	0.78	2.3
13	2.2	2.6	62	31	1,450	36	39	42	3.3	1.2	0.72	2.8
14	2.2	2.7	155	105	211	31	24	18	7.2	2.4	0.73	2.1
15	1.6	4.5	75	62	88	29	19	13	21	1.5	0.75	1.7
16	1.3	13	135	34	61	27	16	159	5.2	1.3	0.70	1.5
17	1.3	6.7	97	24	37	24	14	142	4.0	1.2	0.64	1.4
18	1.2	5.0	35	182	211	21	13	72	3.6	1.2	0.61	1.4
19	1.5	5.2	25	83	84	204	12	70	3.4	1.1	0.60	1.3
20	5.9	13	29	39	348	11	64	2.9	1.1	0.59	1.2	
21	2.5	15	38	24	26	61	10	87	2.8	1.2	0.55	1.2
22	1.5	9.3	35	18	22	39	9.6	35	2.8	1.0	0.56	1.2
23	1.5	7.4	555	17	24	31	9.0	24	2.5	5.0	0.55	1.2
24	1.7	5.4	286	15	21	26	8.4	18	2.2	15	0.55	1.2
25	2.2	4.7	53	13	25	23	7.7	14	2.1	5.5	0.55	1.2
26	2.3	118	70	11	58	21	7.3	12	2.1	2.5	0.54	1.7
27	1,040	180	226	11	160	20	7.7	12	2.0	1.7	0.50	1.8
28	50	32	56	10	60	19	24	14	1.9	1.4	0.50	3.2
29	12	17	396	9.7	29	17	80	10	1.8	1.2	0.56	11
30	7.1	13	71	13	---	15	22	8.3	1.8	1.1	0.72	5.2
31	5.4	---	241	11	---	14	---	9.1	---	1.0	0.62	---
Total	1,155.93	489.0	2,936.0	1,157.7	3,504	4,109	709.7	1,087.4	229.4	65.4	22.79	147.13
Mean	37.3	16.3	94.7	37.3	121	133	23.7	35.1	7.65	2.11	0.74	4.90
Max	1,040	180	555	182	1,450	1,680	126	159	41	15	1.6	55
Min	0.20	2.2	8.2	9.7	13	14	7.3	7.2	1.8	1.0	0.50	0.51
Cfsm	1.40	0.61	3.56	1.40	4.54	4.98	0.89	1.32	0.29	0.08	0.03	0.18
In.	1.62	0.68	4.11	1.62	4.90	5.75	0.99	1.52	0.32	0.09	0.03	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	51.5	72.5	69.9	59.8	66.4	130	123	22.4	92.1	15.9	2.68	12.6
Max	65.7	129	94.7	82.2	121	133	278	35.1	264	42.0	4.77	32.0
(WY)	(2007)	(2007)	(2008)	(2007)	(2008)	(2008)	(2007)	(2008)	(2006)	(2006)	(2006)	(2006)
Min	37.3	16.3	45.1	37.3	10.0	128	23.7	14.5	4.38	2.11	0.74	0.86
(WY)	(2008)	(2008)	(2007)	(2008)	(2007)	(2007)	(2008)	(2006)	(2007)	(2008)	(2008)	(2007)

SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008	Water Years 2006 - 2008
Annual total	20,590.77	15,613.45	
Annual mean	56.4	42.7	53.2
Highest annual mean			63.8
Lowest annual mean			42.7
Highest daily mean	3,900	Apr 15	3,900
Lowest daily mean	^a 0.20	Oct 8	^a 0.20
Annual seven-day minimum	0.24	Oct 2	0.24
Maximum peak flow		7,530	^b 17,500
Maximum peak stage		8.59	12.06
Instantaneous low flow		^a 0.20	^a 0.20
Annual runoff (cfsm)	2.12	1.60	2.00
Annual runoff (inches)	28.80	21.84	27.19
10 percent exceeds	70	79	80
50 percent exceeds	5.9	10	10
90 percent exceeds	0.91	0.78	0.94

^a Estimated.^b From rating curve extended above 5,500 ft³/s.